

S. M. SAIYAD, IFS
MEMBER SECRETARY
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/TOR/5(f)/368 /2019

Date: 25 JUN 2019

By R P A D

Sub: Terms Of Reference to M/s. Harihar Organics Pvt. Ltd. for setting up of 'Synthetic Organic Chemicals' manufacturing plant at Plot no. C1-1901/19, 1901/20, Phase-III, Notified Industrial Area, GIDC Vapi, Ta: Pardi, Dist. Valsad. Time Limit

Ref: Your Proposal No: SIA/GJ/IND2/30848/2019.

Dear Sir,

This has reference to your online application dated 05/02/2019 along with Form-I submitted to SEIAA. The project activity is covered in 5(f) and is of 'B' Category.

The SEAC, Gujarat vide their letter dated 11/06/2019 had recommended to the SEIAA, Gujarat, to grant the Terms Of Reference for the above-mentioned project based on its meeting held on 09/05/2019.

The proposal was considered by SEIAA, Gujarat in its meeting held on 11/06/2019 at Gandhinagar. After careful consideration, the SEIAA hereby accords Terms Of Reference to above project under the provisions of EIA Notification dated 14th September, 2006. The copy of Terms Of Reference is attached herewith.

With regards,
Yours sincerely,

(S. M. SAIYAD)
Member Secretary

Encl: As Above

Issued to:
M/s. Harihar Organics Pvt. Ltd.
Plot no. C1-1901/19, 1901/20,
Phase-III, Notified Industrial Area,
GIDC Vapi, Ta: Pardi,
Dist. Valsad



Terms of Reference [ToR] to M/s. Harihar Organics Private Limited for setting up of expansion in manufacturing plant of 'Synthetic Organic Chemicals' at Plot No: C1-1901/19, 1901/20, Phase III, Notified Ind. Area, GIDC Vapi, Pardi, Dist- Valsad.

Category of the unit: 5(f)

Project status: Expansion

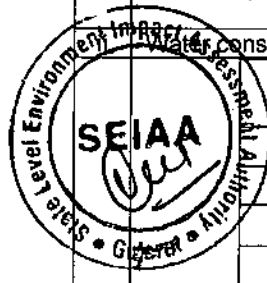
- I. This is in reference to proposal no. SIA/GJ/IND2/30848/2019 dated 05/02/2019 made by project proponent (PP) regarding grant of Terms of Reference [ToR] for preparation of EIA/EMP report.
- II. Project proponent (PP) has submitted Form-1, PFR and relevant details/information.
- III. This is an existing unit engaged in organic chemicals and now proposes for expansion of synthetic organic chemical products as tabulated below:

#	Product	CAS Number	Capacity, TPM			End Use of Product
			Existing	Proposed	Total	
1	Metallic Stearates (Wet Process)	300-92-5/ 6865-35-6/ 1592-23-0/ 557-04-0/ 557-05-1	9.0	16.0	25.0	Paints, Varnishes, Greases/Lubricants, Oil Drilling, Cosmetics, Fluxes, Buildings, Printing Inks, Defoamers, Tarpaulins, etc
2	Metallic and Non-Metallic Stearates (Dry Process)	300-92-5/ 6865-35-6/ 1592-23-0/ 557-04-0/ 557-05-1/ 822-16-2/ 593-29-3/ 2223-93-0	0	200.0	200.0	
3	Calcium Phosphate (Dry Process)	7758-23-8/ 7758-87-4/ 7757-93-9	0	100.0	100.0	
Total			9.0	216.0	325.0	

- IV. The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.
- V. PP was called for presentation in the SEAC meeting dated 26/02/2019.
- VI. The project proponent along with their expert /consultant M/s. Eco Chem Sales & Services, Surat attended the meeting and made presentation before the committee
- VII. Salient features of the project including Water, Air and Hazardous waste management:

#	Particulars	Details
A	Total cost of Proposed Project (Rs. in Crores):	Existing: 78.83 Lakhs Proposed: 83.00 Lakhs Total: 156.83 Lakhs
B	Total Plot area (sq. meter)	Existing: 1565.84 Sq. m. Proposed: 00.00 Sq. m. Total: 1565.84 Sq. m.
	Green belt area (sq. meter)	Existing: 375.00 Sq. m. Proposed: 00.0 Sq. m. Total: 375.00 Sq. m.
C	Employment generation	Existing: 10 Nos. Proposed: 10 Nos. Total: 20 Nos.
D	Water	
i	Source of Water Supply (GIDC Bore well, Surface water, Tanker supply etc...)	GIDC Vapi Water Supply
	Status of permission from the concern authority.	Permission issued by GIDC Vapi Vide Ref. No.: 500 On dated 31/08/2012

#	Particulars	Water Consumption, KLD		
		Existing	Proposed	Total
A.	Domestic	3.0	0	3.0
B.	Industrial			
1.	Processing	4.2	-4.2	0
2.	Product washing	2.8	5.2	8.0



3.	Boiler	3.0	1.0	4.0
4.	Cooling	0	0	0
5.	Floor/container washing	3.0	- 1.0	2.0
	Total Industrial	13.0	1.0	14.0
C.	Gardening	2.0	-1.0	1.0
	Grand Total (A+B+C)	18.0	0.0	18.0

- 1) Total water requirement for the project: 18.00KLD
- 2) Quantity to be recycled:0 KLD
- 3) Total fresh water requirement: 18.00KLD

iii Waste water generation (KLD)

S. No.	Particulars	Effluent generation, KLD		
		Existing	Proposed	Total
A.	Domestic	2.0	0	2.0
B.	Industrial			
1.	Processing	3.2	-3.2	0
	Product washing	2.8	4.2	7.0
2.	Boiler	1.0	0	1.0
3.	Cooling	0	0	0
4.	Floor/container Washing	3.0	- 1.0	2.0
	Total Industrial	10.0	0	10.0
	Grand Total (A+B)	12.0	0	12.0

iv Treatment facility within premises with capacity [For existing and Proposed]
[In-house ETP (Primary, Secondary, Tertiary), MEE, Stripper, Spray Dryer, STP etc.]

➤ ETP -10.00KLD

Treatment scheme including segregation at source.

- Segregation of effluent is not required as no high TDS and High COD stream will be generated from the proposed expansion. After expansion also effluent will be treated in existing ETP and discharge treated effluent in to CETP for further treatment and disposal.

Note: (In case of CETP discharge) :

Management of waste water keeping in view direction under section 18 (1) (b) of the Water (Prevention and Control of Pollution) act, 1974 issued by CPCB regarding compliance of CETP.

- Due to proposed expansion no additional effluent will be generated, hence existing 10 KLD water will be discharge after expansion also.

v Mode of Disposal & Final meeting point

Domestic: Septic Tank/Soak pit

Industrial: Total Industrial Effluent 10.00 KLD (effluent from processing and washing, boiler and Floor/Container washing) will be treated in existing ETP and finally treated effluent will be disposed off into CETP Vapi for further treatment

vi In case of Common facility (CF) like CETP, Common Spray dryer, Common MEE, CHWIF etc.

Name of Common facility

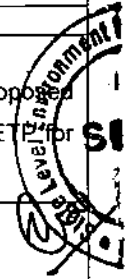
Vapi Green Enviro Limited (VGEL)

Membership of Common facility (CF):-

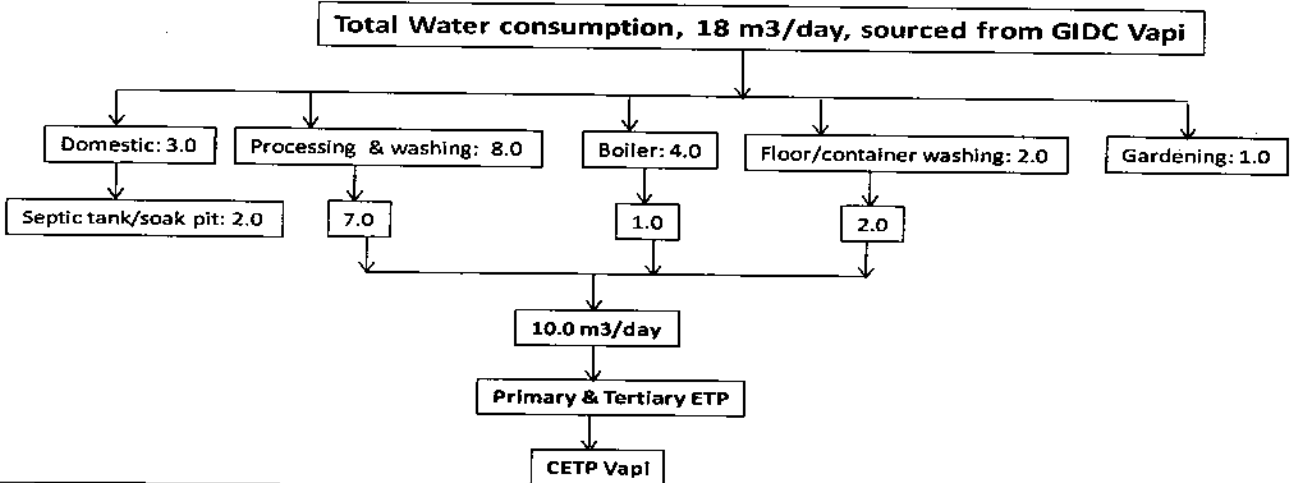
1. VGEL for CETP & TSDf- VGEL/2016-2017/0144-151 dated 03/05/2016

(For waste water treatment)

vii Simplified water balance diagram with reuse / recycle of waste water



Water balance diagram after proposed expansion



vii Reuse/Recycle details (KLD)
[Source of reuse & application area]
Total reuse- Nil

E Air

i Flue gas emission details
No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.
Existing & Proposed
-Existing

#	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures(APCM)
1	Capacity of Steam boiler: I (400 kgs/hr)	11 m	Natural Gas	30 SCM/Hr	PM SOx NOx	11 meters chimney
2	Hot Air Generator: I For tray dryer (1 lakh K cal/hr)	11 m	Natural Gas	35 SCM/Hr		11 meters chimney

-Proposed

#	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures(APCM)
1	Thermopak (3 lakh K cal/hr)	11 m	Natural Gas	100 SCM/Hr	PM SOx NOx	11 meters chimney
2	Hot Air Generator: I For SFD (3 lakh K cal/hr)	11 m	Natural Gas	75 SCM/Hr		11 meters chimney

ii Process gas i.e. Type of pollutant gases (SO₂, HCl, NH₃, Cl₂, NO_xetc.)
Existing & Proposed

-Presently There is no Process gas.

-Proposed

#	Specific Source of emission (Name of the Product & Process)	Type of Emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Spin Flash Dryer	PM	11 m	Cyclone Separator & Bag Filter Bag Filter
2	Air Classifying Mill	PM	11 m	

iii Fugitive emission details with its mitigation measures.

- > Concrete road will be developed within plot premises to avoid fugitive dust due to vehicle movement.
- > Manufacturing activity will be carried out in closed reactors/vessels and regular checking and maintenance of the same will be carried out to avoid any leakages.
- > All the raw materials will be stored in closed containers and in sealed bags and will be handled through closed system to avoid the handling losses.
- > Water Sprinkling will be done to avoid dust emission.

F Hazardous waste
(as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016.
Existing & Proposed

#	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annum)			Management of HW
				Existing	Proposed	Total	



	1.	Waste from ETP	Treatment of Waste Water	Sch.-1, 35.3	0.180	0.06	0.240	Recycled for packing of finished product or sell to actual/authorized recycler	
	2.	Used Oil	Gearbox of Reactors	Sch.-1, 5.1	0.01	0	0.01	Sell to registered recycler	
	3.	Discarded Containers	Raw Material	Sch.-1, 33.1	0.3	14.7	15.0	Sell to actual/authorized recycler	
ii	Membership details of TSDF, CHWIF etc. (For HW management)				TSDF-VGEL Membership No.:164 Ref No.:VGEL/2016-2017/0144-151 dated 03/05/2016				
iii	Details of Non-Hazardous waste & its disposal(MSW and others)				--				
G	Solvent management, VOC emissions etc.								
i	Types of solvents, Details of Solvent recovery, % recovery. reuse of recovered Solvents								
	No Solvent is being/will be used.								
ii	VOC emission sources and its mitigation measures								
	Not Applicable								

VII. Considering the above project details, the terms of reference (ToR) are prescribed as below and as per the standard TOR for the Synthetic Organic Chemical projects recommended by SEAC vide letter no. EIA-10-GEN-21/1480 dated 14/09/2017 and approved by SEIAA in its 12th meeting dated 16/09/2017 for the EIA study to be done covering 10 Km radial distance from the project boundary.

1. Compliance of MoEFCC's OM dated 01/05/2018 regarding "Corporate Environment Responsibility" (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 for various activities therein. The details of fund allocation and activities for CER shall be incorporated in EIA/EMP report.
2. Adequacy of proposed area with respect to plant machineries, EMS, green belt, safety aspect, raw material & product storage considering worst case scenario. Submit proper lay out plan clearly demarcating all activities with scale.
3. Details with respect to justification for proposed expansion: (1) To address proportionate availability of space for production plant. (2) To address proportionate availability of storage area for raw materials finished goods, utilities and goods carrier movement within premises. (3) To address proportionate captive/common infrastructure available to accommodate additional load due to proposed expansion. (4) Environment impact and its mitigation measures for common/ captive infrastructure due to proposed production.
4. Explore the use of renewable energy to the maximum extent possible. Details of provisions to make the project energy-efficient through energy efficient devices and adoption of modes of alternative eco-friendly sources of energy like solar water heater, solar lighting etc. Measures proposed for energy conservation.
5. PP shall furnish status of all the applicable rules, acts, regulation, clearances in a tabular form.
6. Treatment of waste water streams based on characteristics and its proper management keeping in view direction under section 18 (1) (b) of the Water (Prevention and Control of Pollution) act, 1974 issued by CPCB regarding compliance of CETP.
7. Justification regarding no increase in waste water generation quantity after proposed expansion.

XIII. The TOR prescribed as above and as per the standard TOR approved by SEIAA and the model ToRs available in the MoEFCC's sector specific EIA Manual for 'Synthetic Organic Chemical Industry' shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project proponent shall have to apply for Environmental clearance through online portal <http://environmentclearance.nic.in/> along with final EIA report.

XIV. The project proponent shall have to apply for Environmental clearance through online portal <http://environmentclearance.nic.in/> along with final EIA report.

